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SPACE GATEWAY SUPPORT (SGS) **SGS-08 44 00.00 99 (April 2006)**

Preparing Activity: SGS-DE **Superseding SGS-09586J (February 2005)**

SGS GUIDE SPECIFICATIONS

References are NOT in Agreement with UMRL dated 01 April 2006

Revised throughout - changes not indicated by CHG tags
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SPACE GATEWAY SUPPORT (SGS) | **SGS-08 44 00.00 99 (April 2006)**

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SECTION 08 44 00.00 99

CURTAIN WALL AND GLAZED ASSEMBLIES
04/06

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NOTE: This guide specification covers the requirements for polyester resin, reinforced with glass fiber in a random, chopped strand mat smooth non-ribbed solid fiberglass sheets.

Brackets are used in the text to indicate designer choices or locations where text must be supplied by the designer.

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PART 1 GENERAL

Fiberglass panels to be by one of the following or equivalent.

Lasco Panel Products
Nudo Panels
Structoglas Wall and Ceiling Panels

Wall panels shall be of polyester resin, reinforced with glass fiber in a random, chopped strand mat smooth non-ribbed solid fiberglass sheets, 0.090" thickness, sizes to allow the least amount of joints and allow no additional joints when resurfacing jointed modular units except at already existing breaks in the units. Color to be almond. Panels shall exhibit minimal water absorption of 0.4 or less, and a nominal coefficient of lineal expansion not greater than 20×10^{-6}.

Panels shall have a Class A fire rating and shall meet the requirements for flame spread of 25 and smoke development rating of 180.

Panels shall meet the following test minimum standards for strength.

a. Bearing Strength - ASTM D 953 - 19100
b. Flexural Strength - ASTM D 790 - 15500
c. Flexural Modules - ASTM D 790 - 0.65×10^{6}
d. Tensile Strength - ASTM D 638 - 7500

1.1 REFERENCES

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NOTE: This paragraph is used to list the publications cited in the text of the guide specification. The publications are referred to in the text by basic designation only and listed in this paragraph by organization, designation, date, and title.

Use the Reference Wizard's Check Reference feature when you add a RID outside of the Section's Reference Article to automatically place the reference in the Reference Article. Also use the Reference Wizard's Check Reference feature to update the issue dates.

References not used in the text will automatically be deleted from this section of the project specification when you choose to reconcile references in the publish print process.

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The publications listed below form a part of this section to the extent referenced:

ASTM INTERNATIONAL (ASTM)

ASTM D 638	(2001) Tensile Properties of Plastics
ASTM D 790	(2003) Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials
ASTM D 953	(1995; R 2002) Standard Test Method for Bearing Strength of Plastics

1.2 SUBMITTALS

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NOTE: Review submittal description (SD) definitions in Section 01 33 00 SUBMITTAL PROCEDURES and edit the following list to reflect only the submittals required for the project. Submittals should be kept to the minimum required for adequate quality control. Include a columnar list of appropriate products and tests beneath each submittal description.

A "G" following a submittal item indicates that the submittal requires Government approval. Some submittals are already marked with a "G". Only delete an existing "G" if the submittal item is not complex and can be reviewed through the Contractor's Quality Control system. Only add a "G" if the submittal is sufficiently important or complex in context of the project.

For submittals requiring Government approval on Army projects, a code of up to three characters within the submittal tags may be used following the "G"

designation to indicate the approving authority. Codes for Army projects using the Resident Management System (RMS) are: "AE" for Architect-Engineer; "DO" for District Office (Engineering Division or other organization in the District Office); "AO" for Area Office; "RO" for Resident Office; and "PO" for Project Office. Codes following the "G" typically are not used for Navy, Air Force, and NASA projects.

Submittal items not designated with a "G" are considered as being for information only for Army projects and for Contractor Quality Control approval for Navy, Air Force, and NASA projects.

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The following shall be submitted in accordance with Section 01 33 00 "SUBMITTAL PROCEDURES," in sufficient detail to show full compliance with the specification:

SD-02 Shop Drawings

Provide Shop Drawings showing location, extent and installation details.

Fiberglass panels

SD-03 Product Data

Submit product data including installation methods and physical characteristics.

Fiberglass panels

SD-04 Samples

Provide 6" x 6" sample of Fibergalss panels and 12" long sample of molding strips

PART 2 PRODUCTS

2.1 PRECONSTRUCTION REQUIREMENTS, DELIVERY AND STORAGE OF MATERIALS

Prior to construction commencement, submit the following for review and approval:

Shop Drawings
installation methods
physical characteristics
Fibergalss panels 6" x 6" samples
molding strips 12" long samples

All materials shall be inspected immediately upon delivery and defects reported. Fiberglass panels shall be removed from shipping containers and stacked lying flat on a solid flat dry surface. Panels shall be acclimated at least 24 hours in temperature and humidity conditions approximating the operating environment of the finished room.

PART 3 EXECUTION

3.1 INSTALLATION

Wall Preparation-Subwalls shall be flat, clean, dry and free of all dirt, dust or grease. Panels shall be delivered with a detailed installation guide and shall be mounted in accordance with manufacturer's recommendations with both adhesive and mechanical fasteners and proper molding strips shall be installed at exposed edges.

Apply a high quality construction grade adhesives and clear silicone sealant in accordance with manufacturer's recommended installation procedures.

Expansion-Leave not less than 1/4" gap at ceiling and floor, 1/8" gap between wall panels for normal expansion and contraction. Allow not less than 1/8" gap around piper, electrical fittings and other projections. Fill gaps with flexible, silicone based caulking to complete moisture seal. Caulk all corner seams, ceiling and base junctions and fastener holes. Fasteners shall be non-corrosive such as nylon drive rivets or stainless steel screws. Fastener holes shall be pre-drilled slightly over size. Install fasteners no farther than 8" apart around outside edges and 12" apart on intermediate 16" centers. Stagger fasteners on opposing panel edges. Outside fasteners should be approximately 1" from panel edge.

Installer Qualifications-Engage an experienced installer who has previously installed fiberglass wall panel systems.

-- End of Section --